

AMENDMENTS TO THE CLAIMS

This Listing of Claims will replace all prior versions and listings of claims in this application.

Please Cancel claims 1-20 without prejudice or disclaimer.

Claims 1-20 (Cancelled).

21. (New) An implant in an assigned jawbone hole comprising bioactive or osteoinductive material in or on the implant and arranged so that the implant is completely or partially covered by soft tissue or by a unit applied to the jaw bone so that the implant forms one or more spaces together with the soft tissue and/or the unit and the upper or lateral surface(s) of the jaw bone, wherein the bioactive or osteoinductive material is a growth-stimulating substance selected from the group consisting of matrix molecules, growth factors, differentiation factors, peptides with growth stimulating properties, and combinations thereof.

22. (New) The implant of claim 21, wherein the implant has a position which is offset in relation to the real center line of the jaw bone in the horizontal plane so that the implant has side surface parts or outer thread parts which have a greater degree of exposure to the one or more spaces than the other side surface parts or other side outer thread parts.

23. (New) The implant of claim 21, wherein a portion of the implant with a greater degree of exposure to the one or more spaces than other portions of the implant presents a higher concentration of the bioactive or osteoinductive material than the other portions of the implant.

24. (New) The implant of claim 21 having the unit, which is temporarily or permanently attached to the jaw bone and the unit completely or partially covers the exposed surface of the implant.

25. (New) The implant of claim 24, wherein the unit has an internally curved surface which, when the unit is applied, is directed toward the exposed surface of the implant.

26. (New) The implant of claim 22, wherein the implant's exposed surface extends 20-180°, viewed in the circumferential direction of the implant.

27. (New) The implant of claim 24, wherein the implant's exposed surface extends 20-180°, viewed in the height direction (H).

28. (New) The implant of claim 24, wherein the unit is coated with the bioactive or osteoinductive material on its surface exposed toward the implant.

29. (New) The apparatus of claim 21, wherein the implant has a threaded outer surface.

30. (New) The apparatus of claim 20, wherein the implant is coated with an oxide layer having pores in which the bioactive or osteoinductive material is stored.

31. (New) A method for building up a bone-based lateral support for an implant comprising:

placing an implant having bioactive or osteoinductive material in or on the implant in an assigned jaw bone hole so that the implant is completely or partially covered by soft tissue or by a unit applied to the jaw bone so that the implant forms one or more spaces together with the soft tissue and/or the unit and the upper or lateral surface(s) of the jaw bone; and

allowing cell-containing body fluid from at least the jaw bone to penetrate into the one or more spaces and interact with the bioactive or osteoinductive material to form a bone-based lateral support for the implant,

wherein the bioactive or osteoinductive material is a growth-stimulating substance selected from the group consisting of matrix molecules, growth factors, differentiation factors, peptides with growth stimulating properties, and combinations thereof.

32. (New) The method of claim 32, wherein the implant has a position which is offset in relation to the real center line of the jaw bone in the horizontal plane before the bone-based lateral support is formed, so that the implant has side surface parts or outer thread parts which have a greater degree of exposure to the one or more spaces than the other side surface parts or other side outer thread parts.

33. (New) The method of claim 31, wherein a portion of the implant with a greater degree of exposure to the one or more spaces than other portions of the implant is covered with a higher concentration of the bioactive or osteoinductive material than the other portions of the implant .

34. (New) The method of claim 31 having the unit, wherein the unit is temporarily or permanently attached to the jaw bone and completely or partially covers the exposed surface of the implant

35. (New) The method of claim 34, wherein the unit has an internally curved surface which, when the unit is applied, is directed toward the exposed surface of the implant.

36. (New) The method of claim 34, wherein the implant's exposed surface extends 20-180°, viewed in the circumferential direction of the implant.

37. (New) The method of claim 34, wherein the implant's exposed surface extends 20-180°, viewed in the height direction (H).

38. (New) The method of claim 31, wherein the unit is coated with the bioactive or osteoinductive material on its surface exposed toward the implant before the bone-based lateral support is formed.

39. (New) The method of claim 31, wherein the implant has a threaded outer surface.

40. (New) The method of claim 31, wherein the implant is coated with an oxide layer having pores in which the bioactive or osteoinductive material is stored.